

FIG. 1

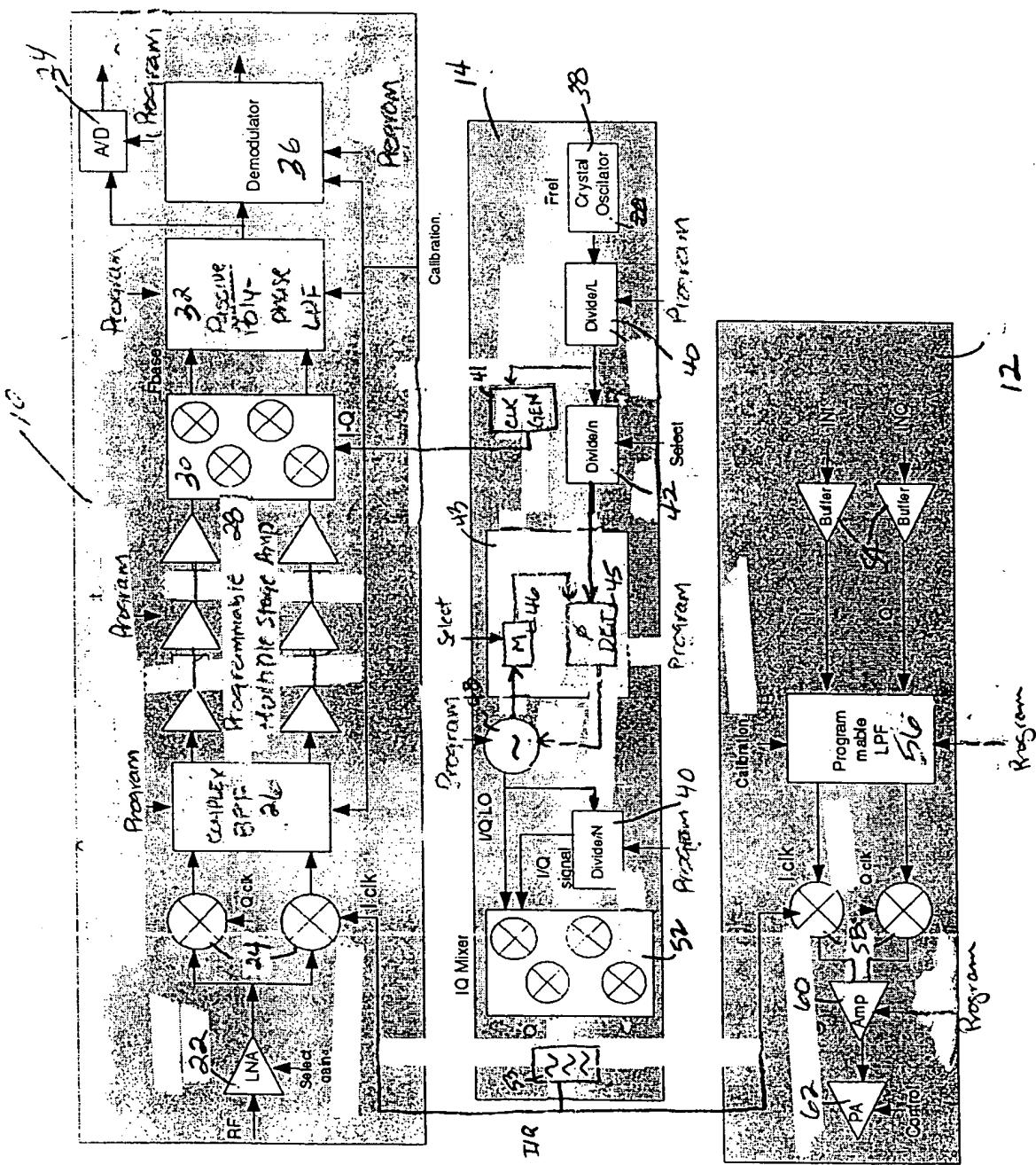
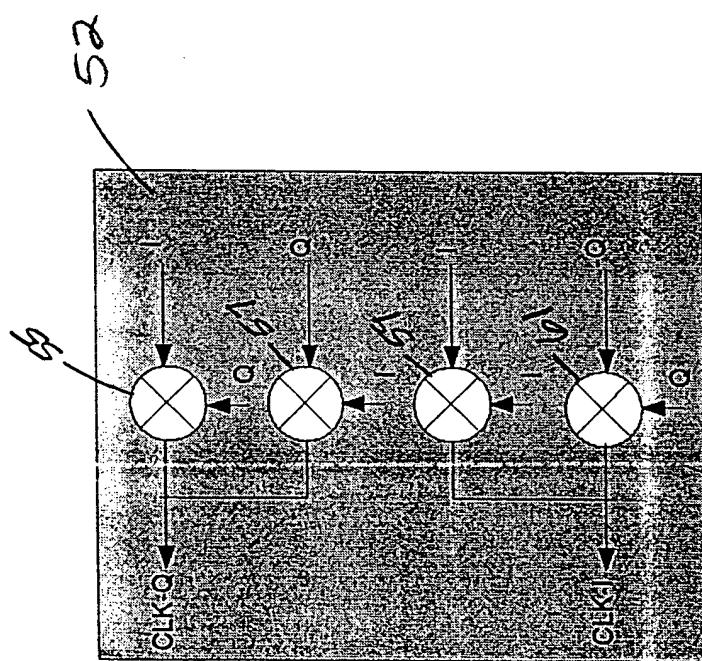


Fig. 2

FIG. 3



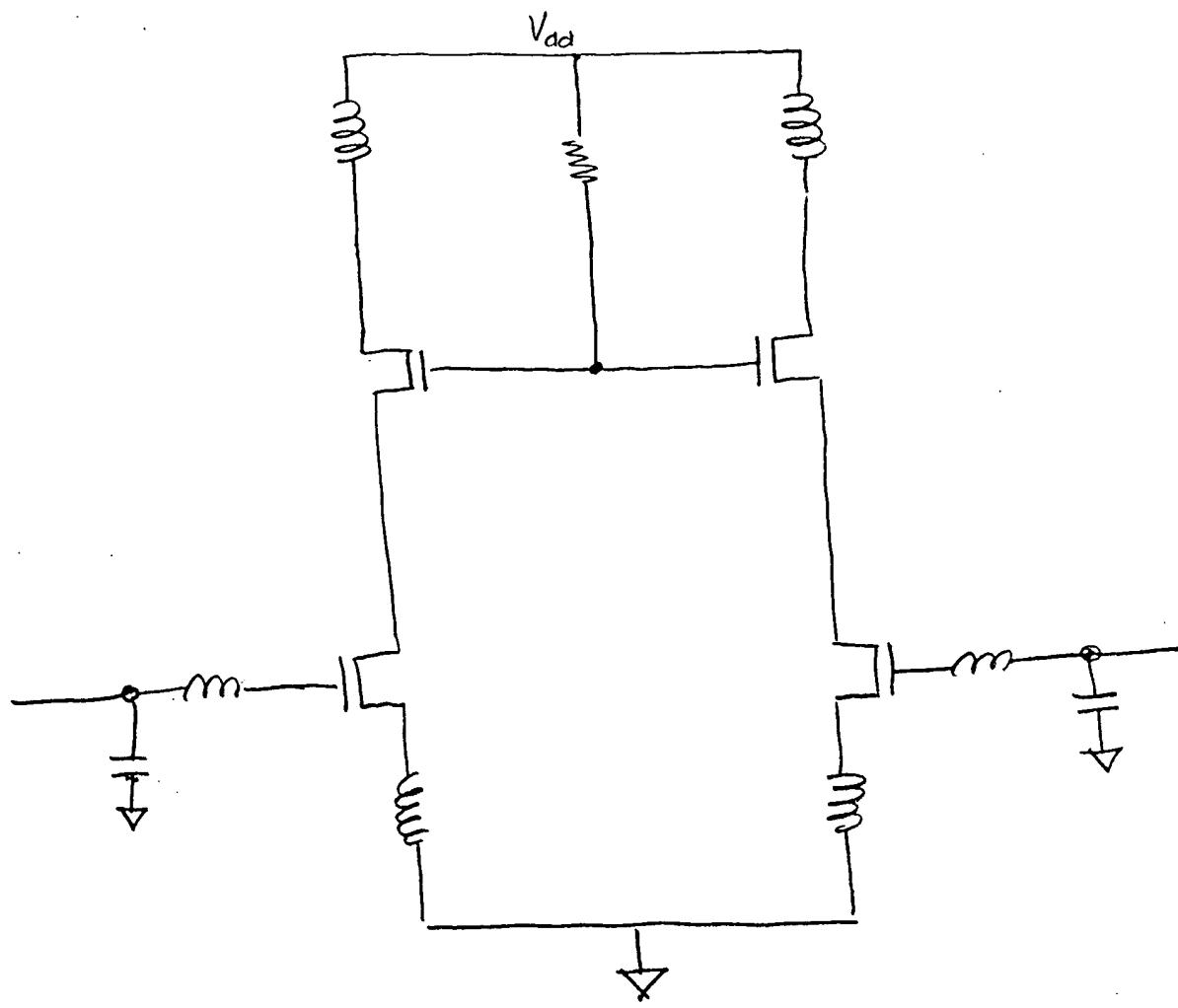


FIG. 4 (a)

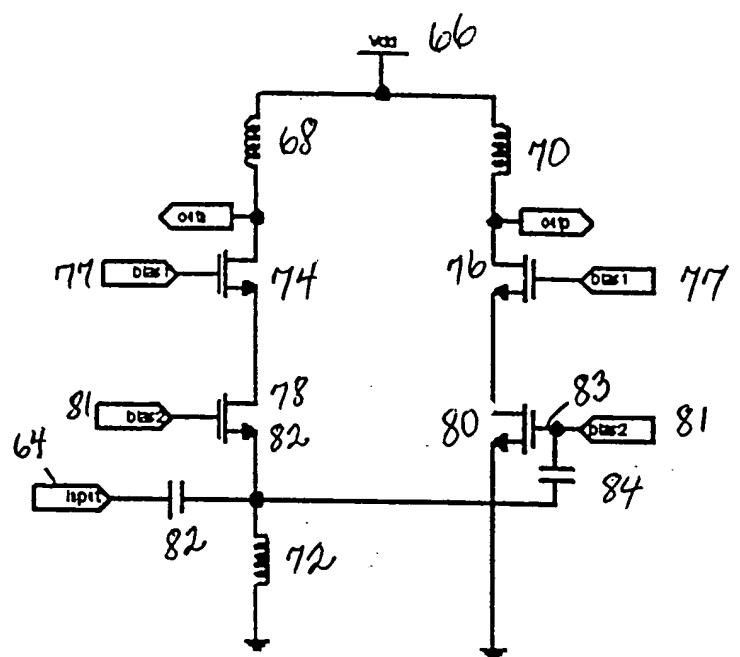
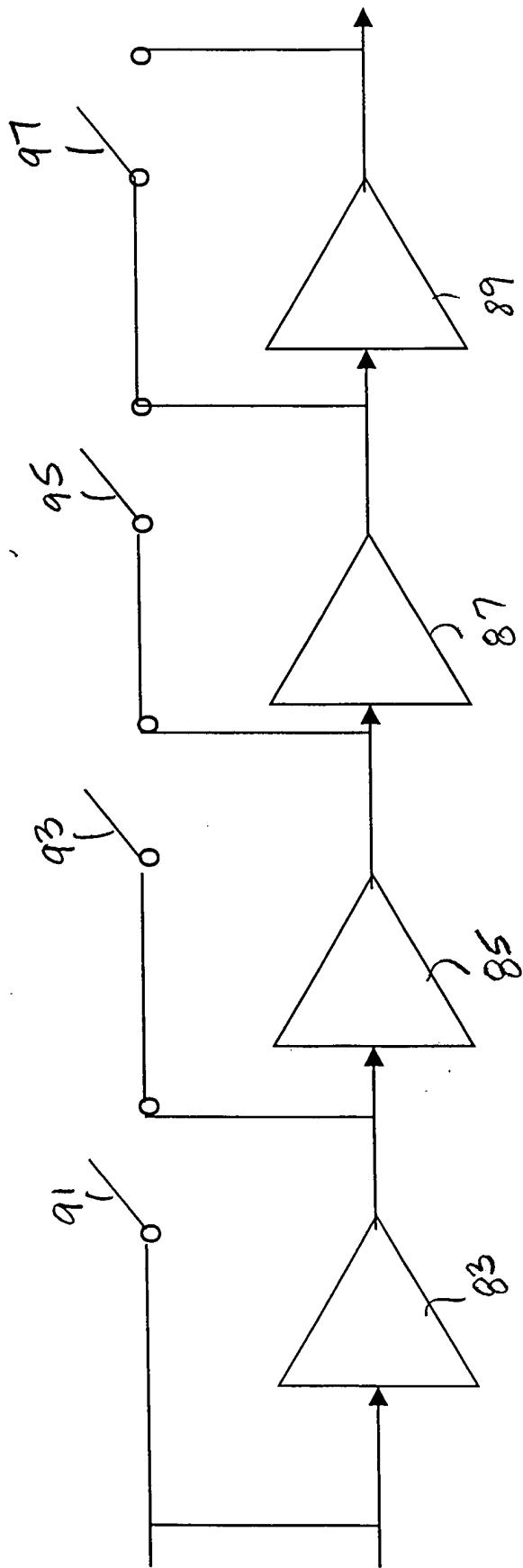


FIG. 4

FIG. 5



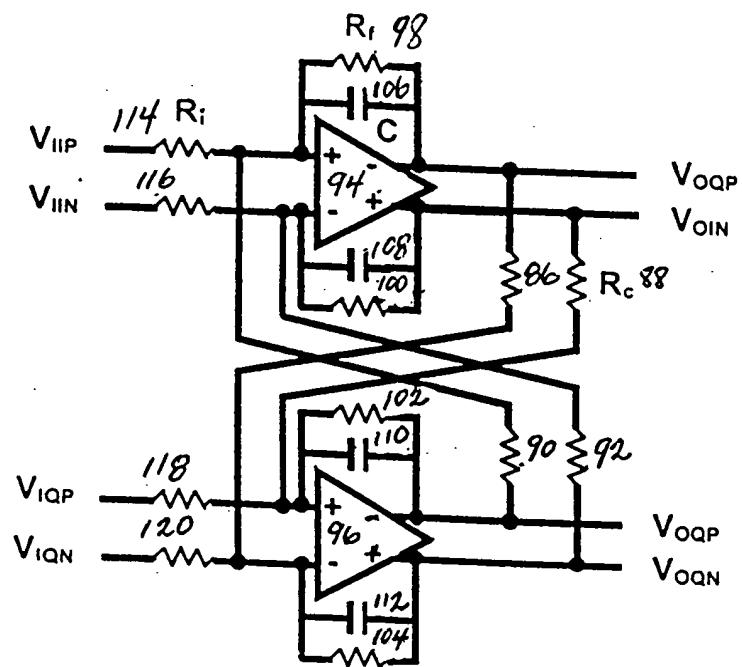


FIG. 6

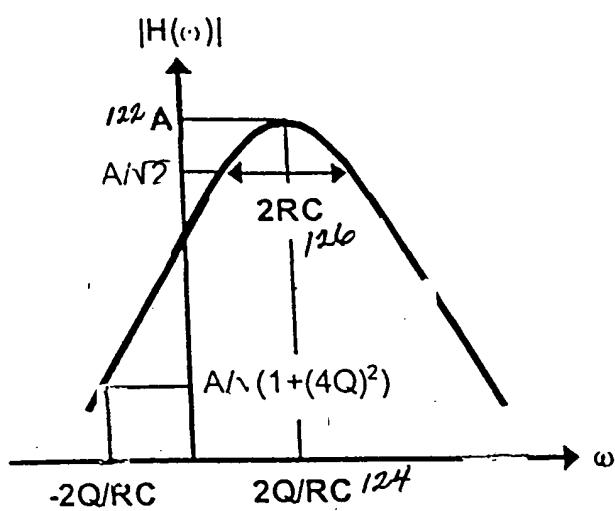
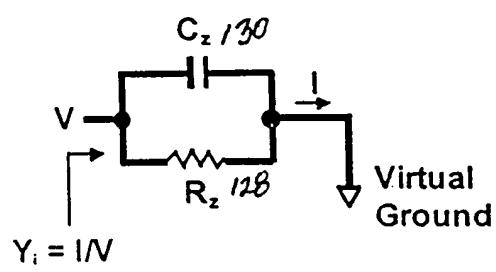
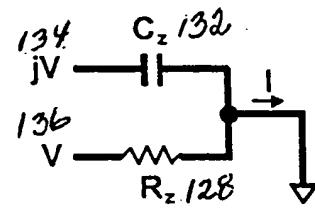


FIG. 7



$$Y_i = I/V$$



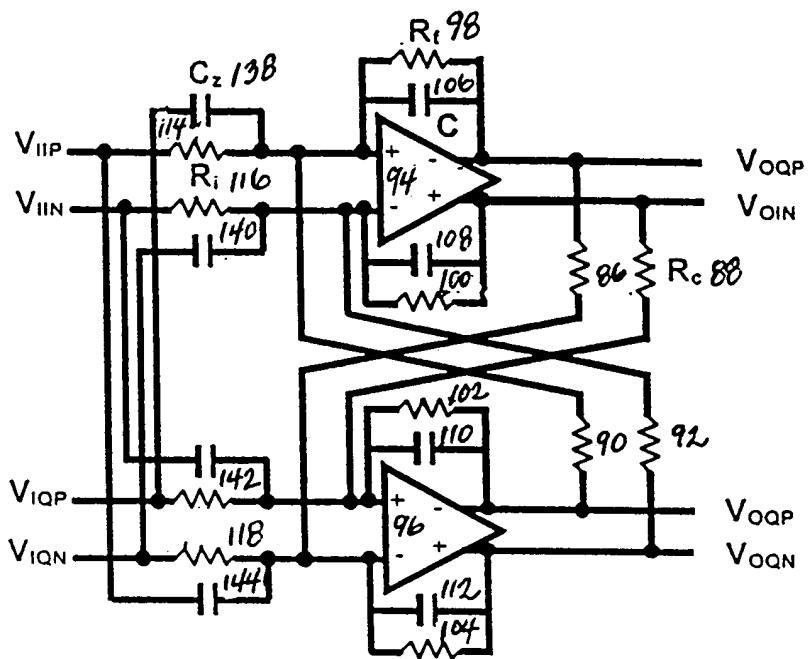


FIG. 10

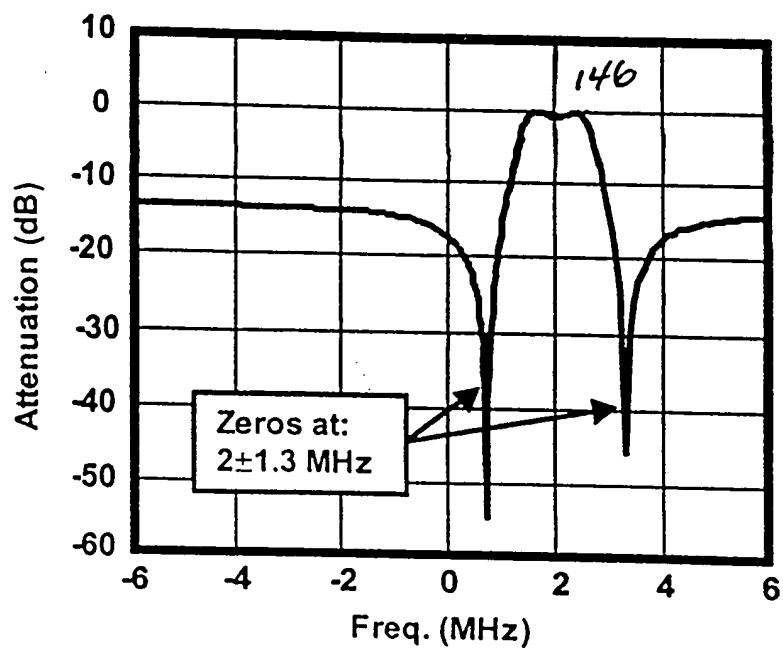


FIG. 11

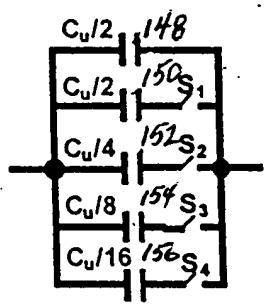


FIG. 12(a)

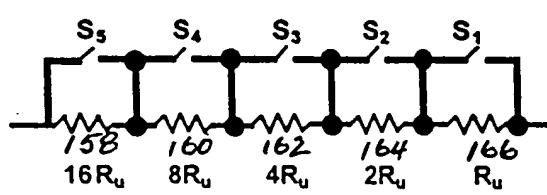


FIG. 12(b)

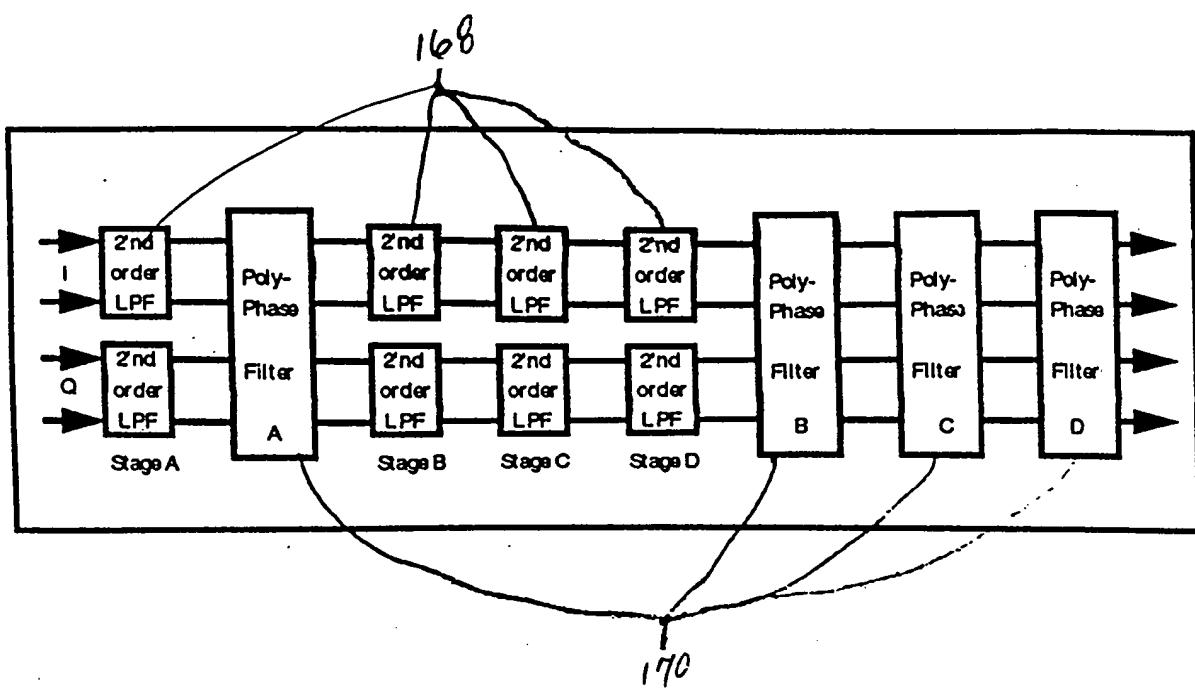
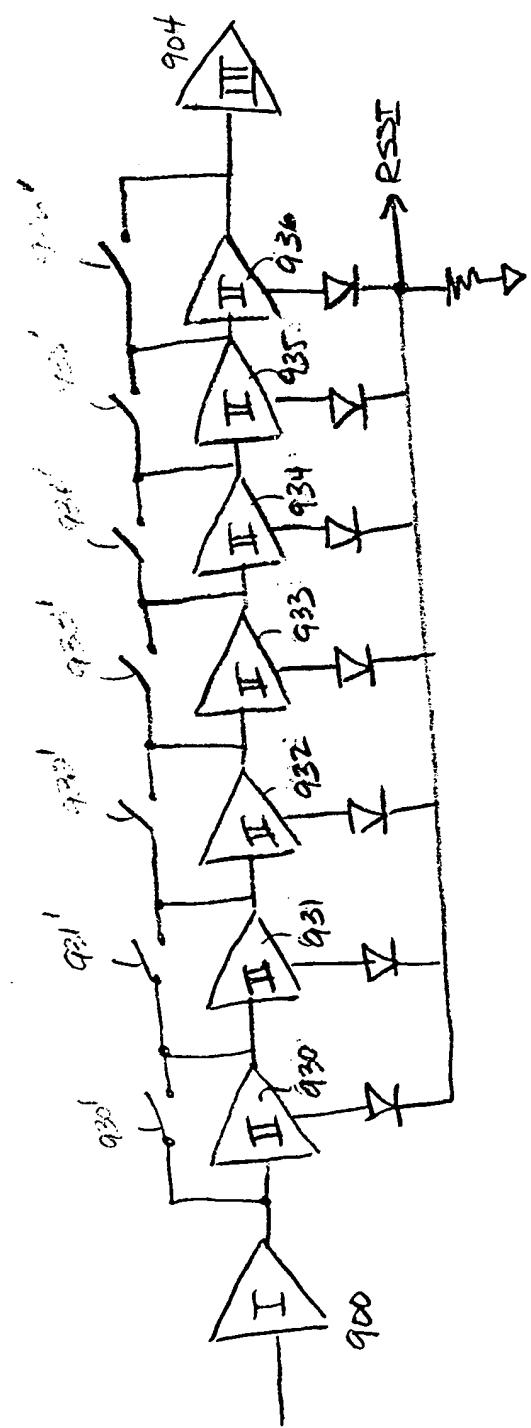


FIG. 13

FIG. 14



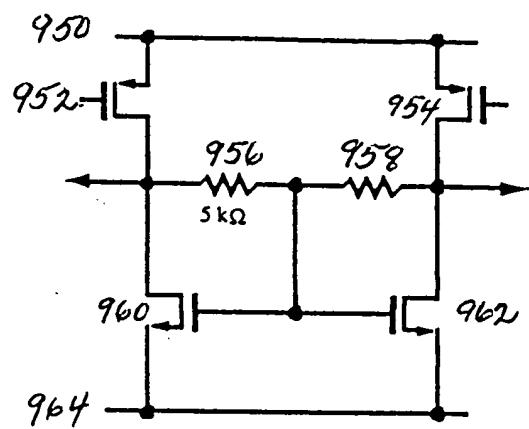


FIG. 15

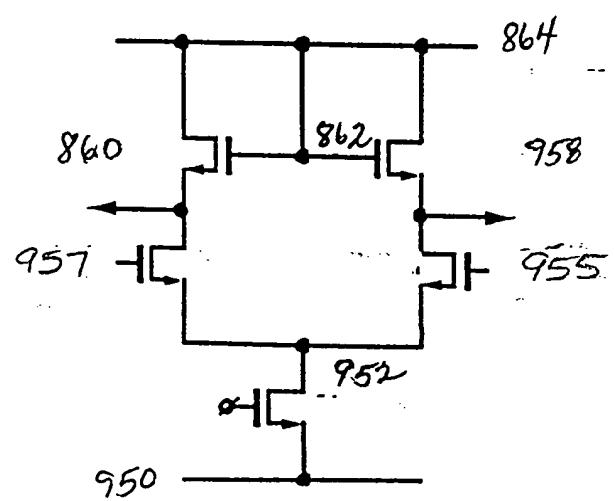


FIG. 16(a)

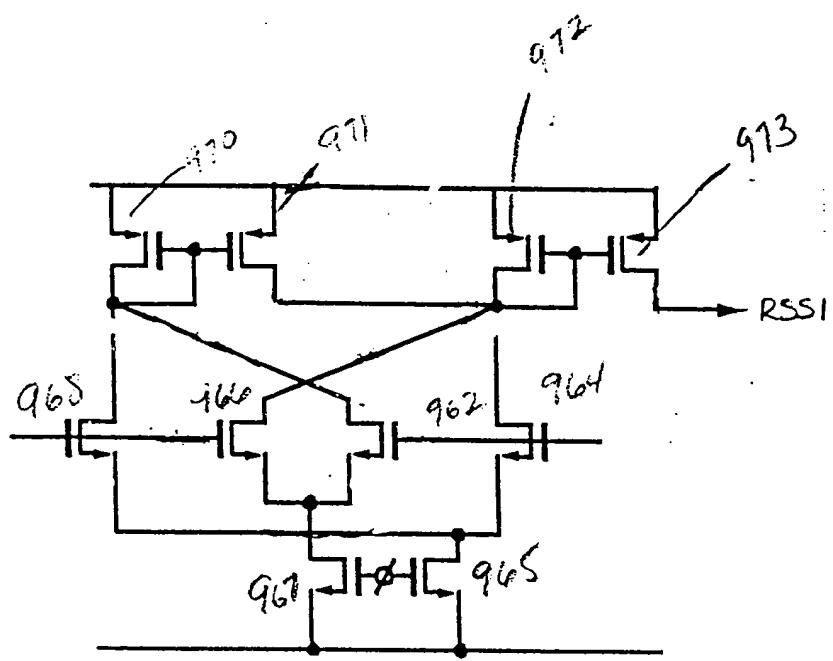


FIG. 16(b)

FIG. 17(a)

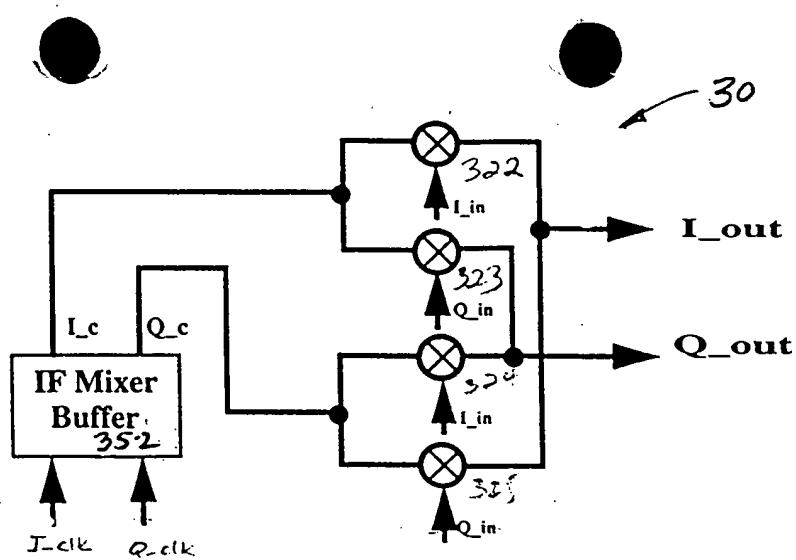
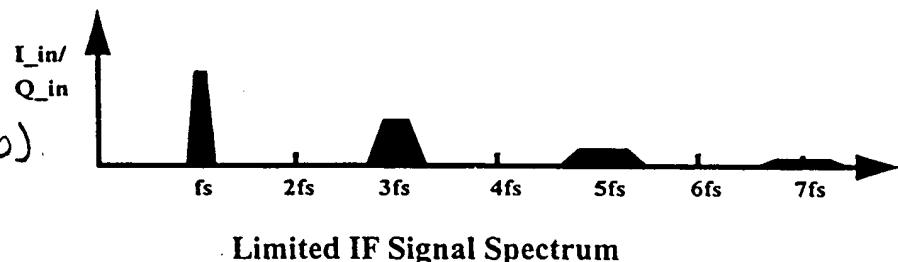
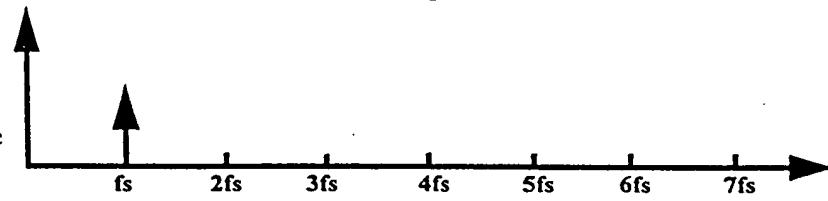


FIG. 17(b)



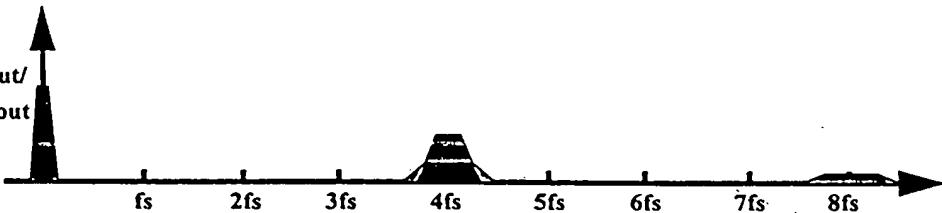
Limited IF Signal Spectrum

FIG. 17(c) I_c/Q_c



Sinusoidal Input Spectrum

FIG. 17(d) I_{out}/Q_{out}



IF Mixer Output Spectrum

FIG. 18

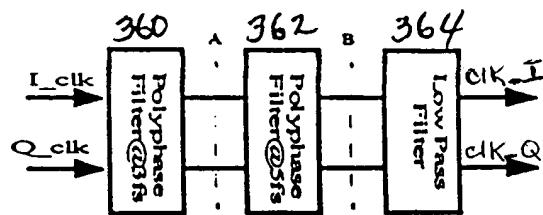


FIG. 19(a)

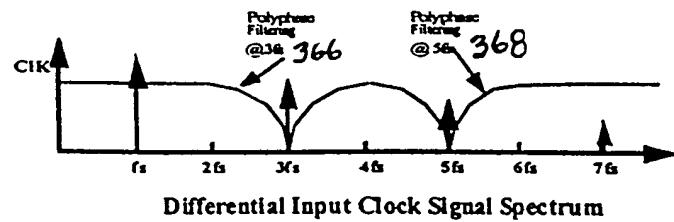


FIG. 19(b)

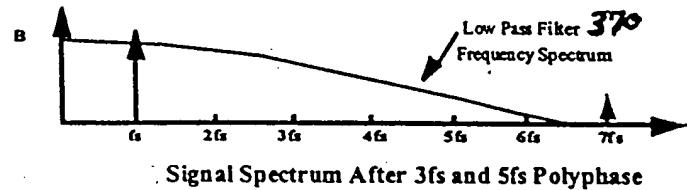
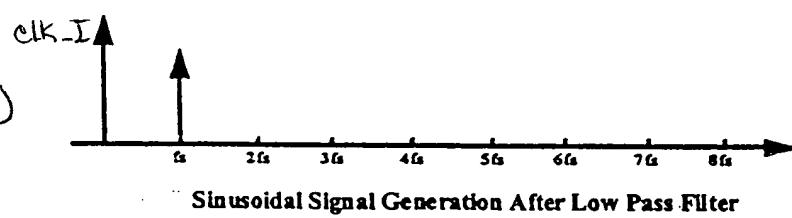


FIG. 19(c)



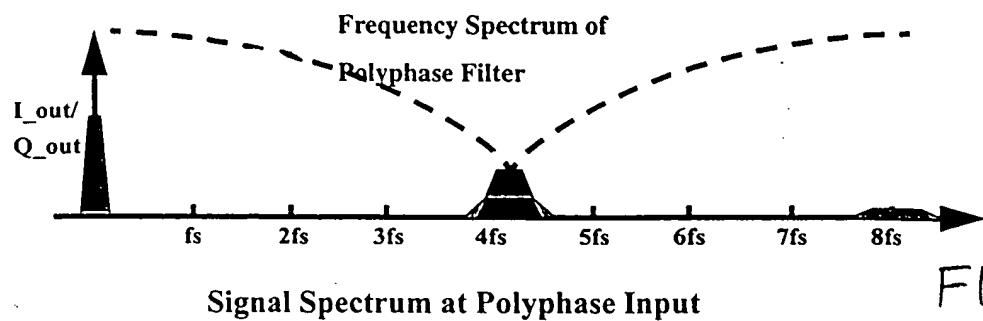


FIG. 20(a)

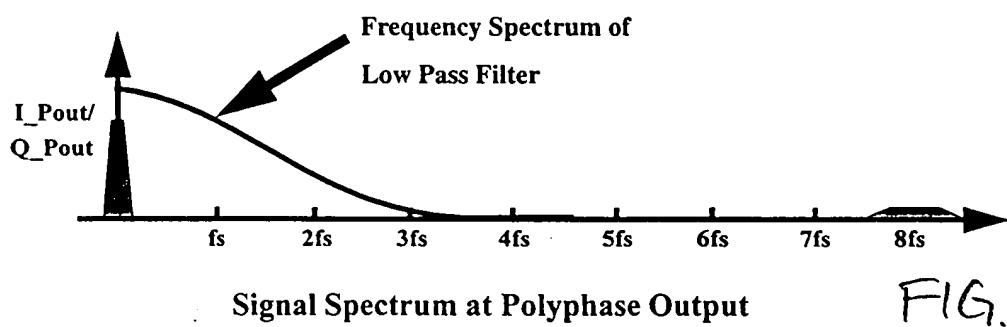


FIG. 20(b)

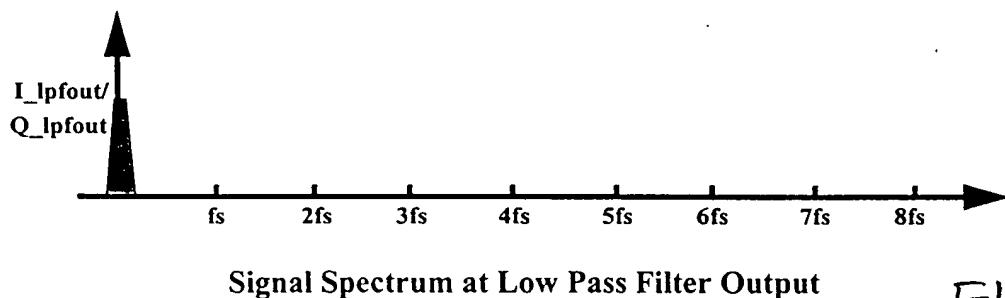


FIG. 20(c)

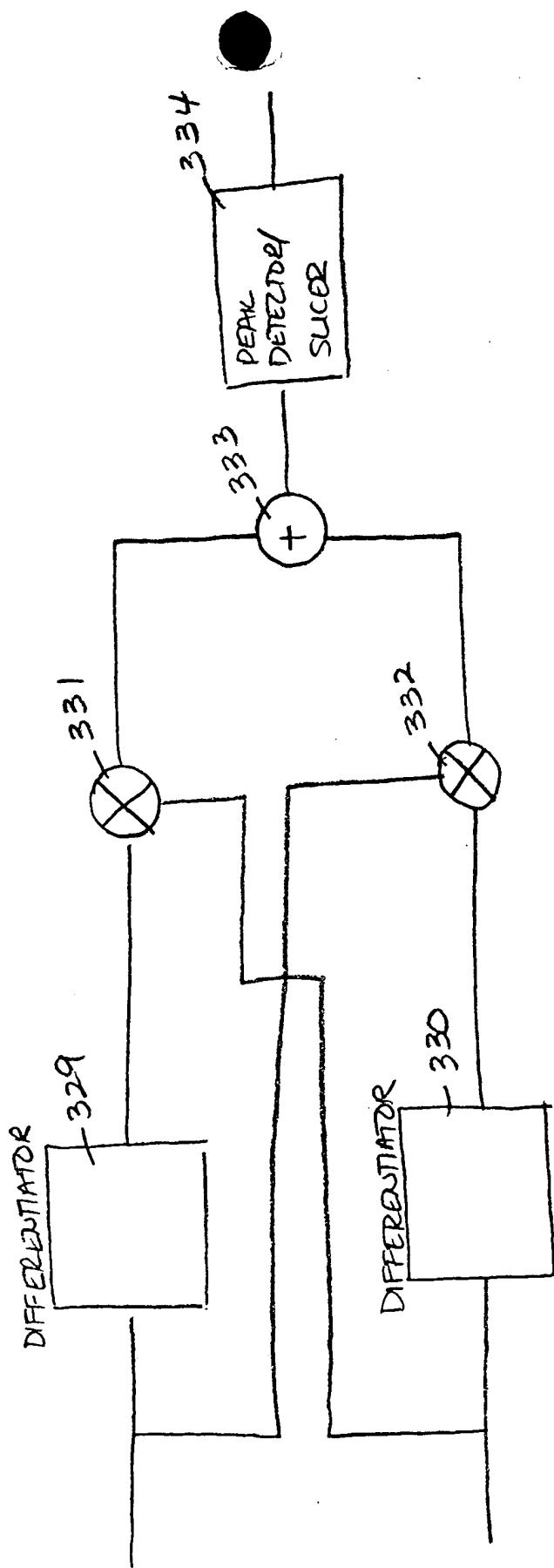


FIG. 21

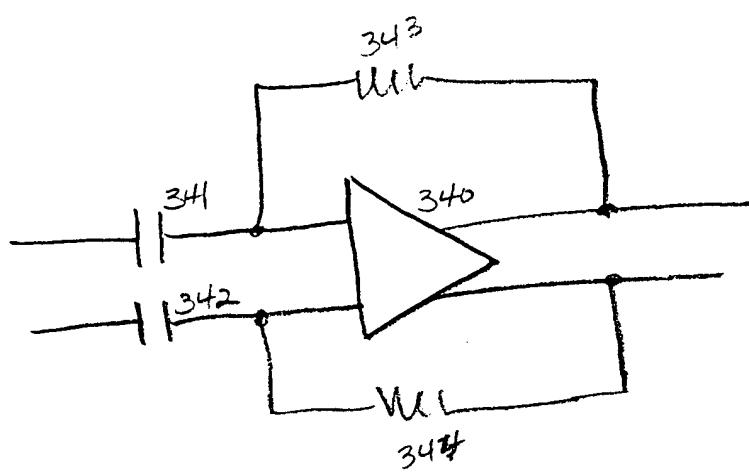


FIGURE 22

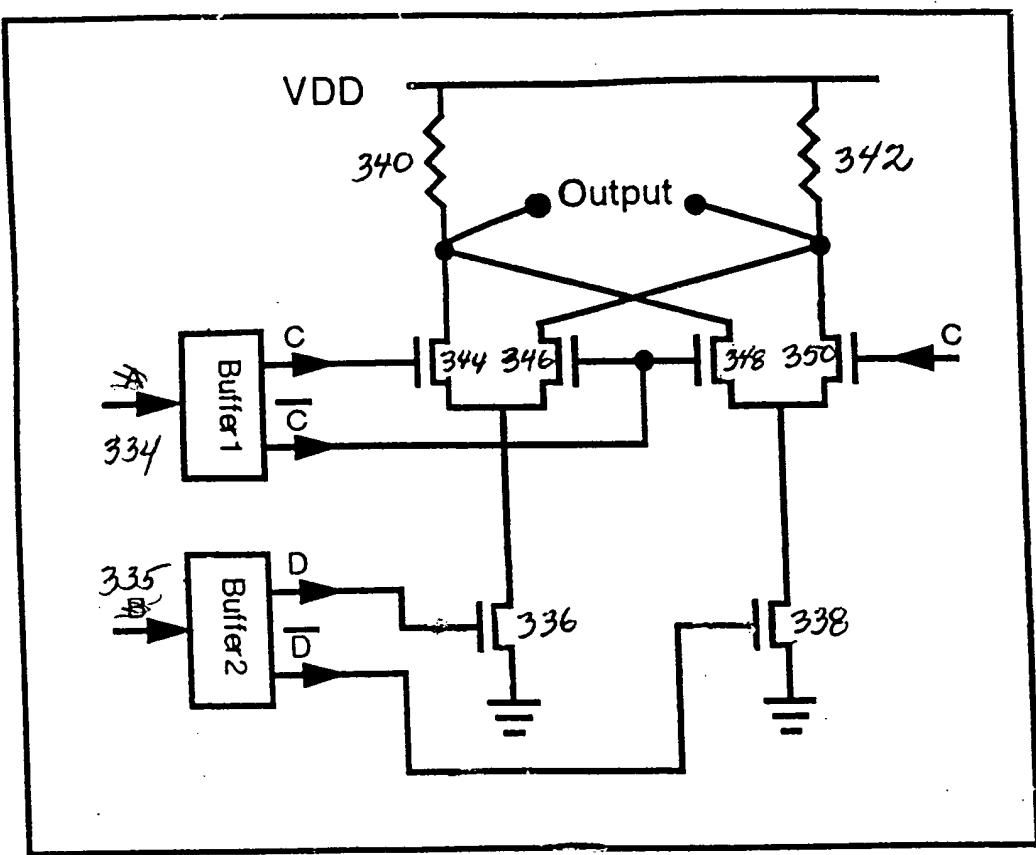


FIG. 23

FIGURE 24

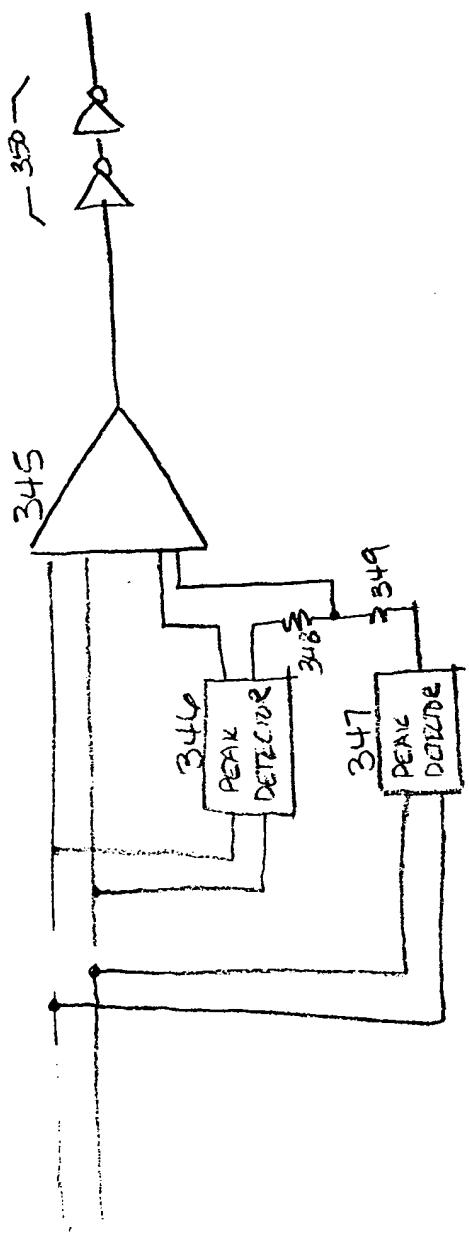
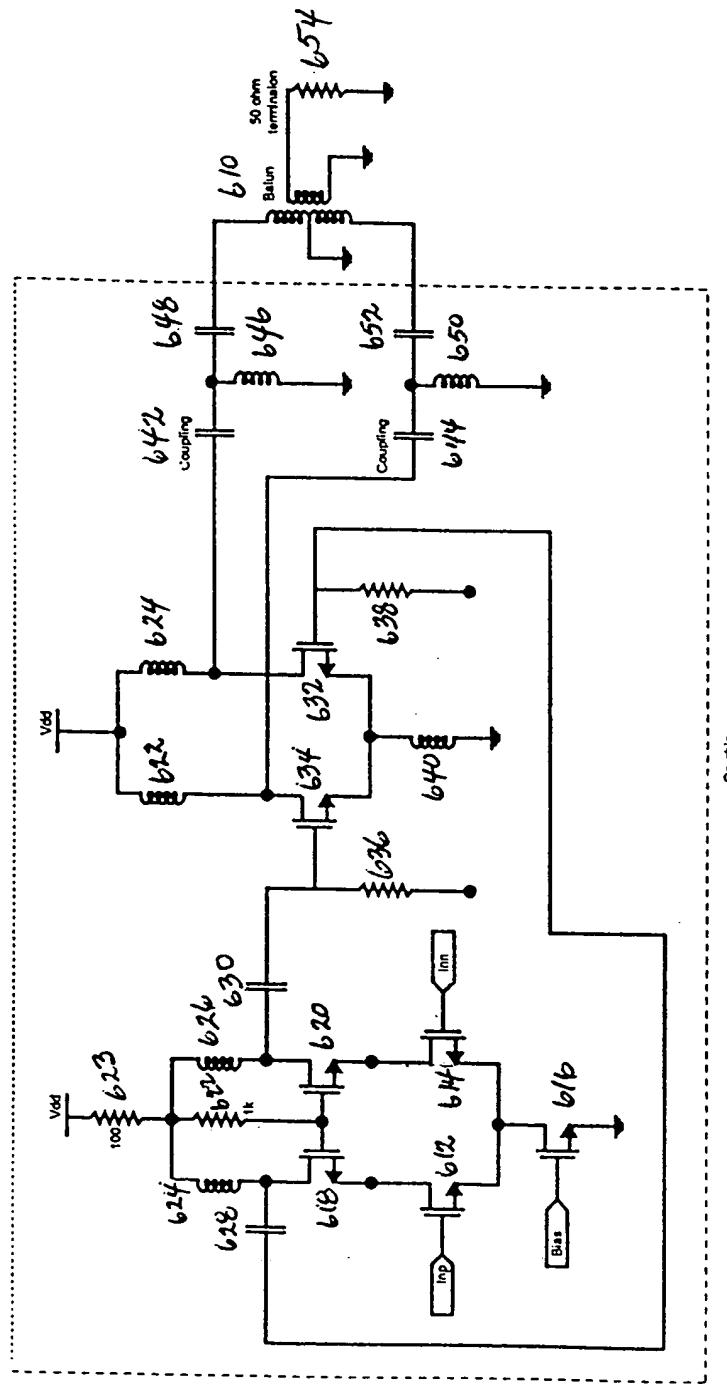


FIG. 25



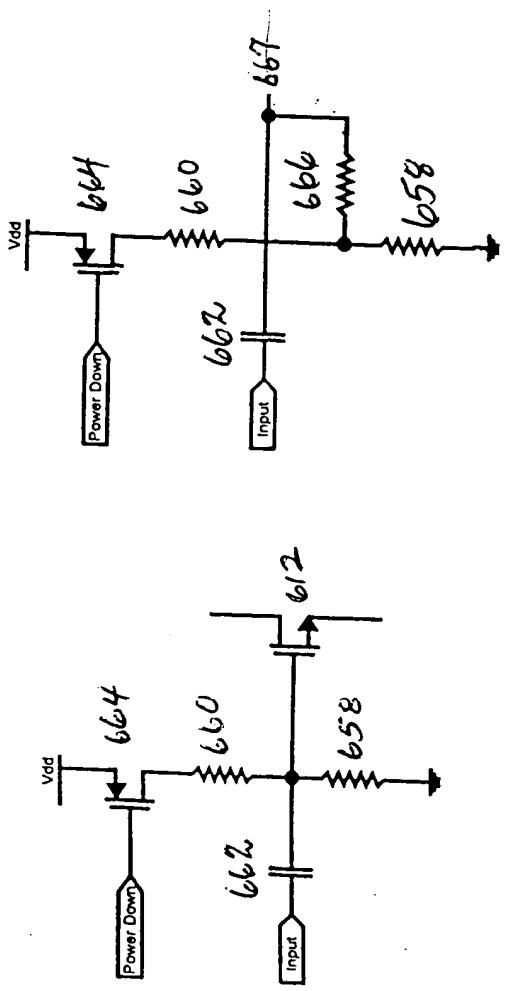


FIG. 26(a)

FIG. 26(b)

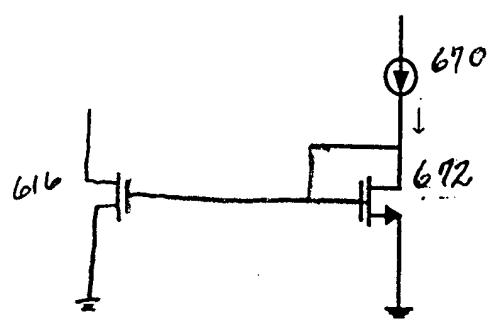


FIG. 27

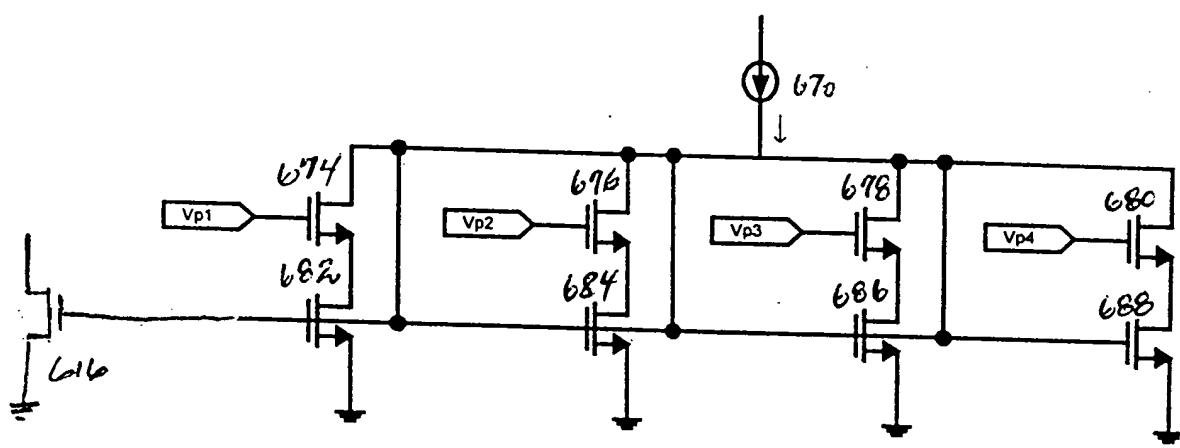


FIG. 28

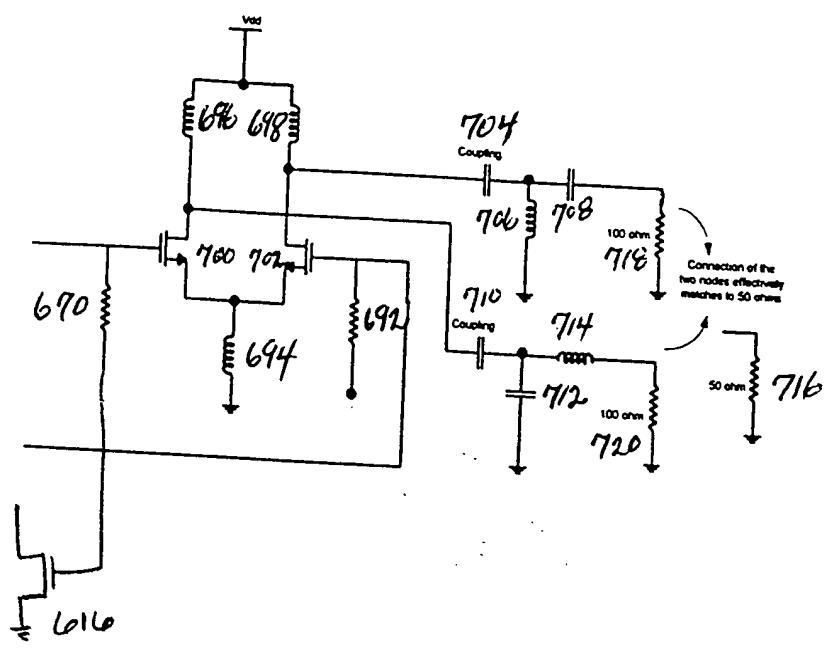


FIG. 29

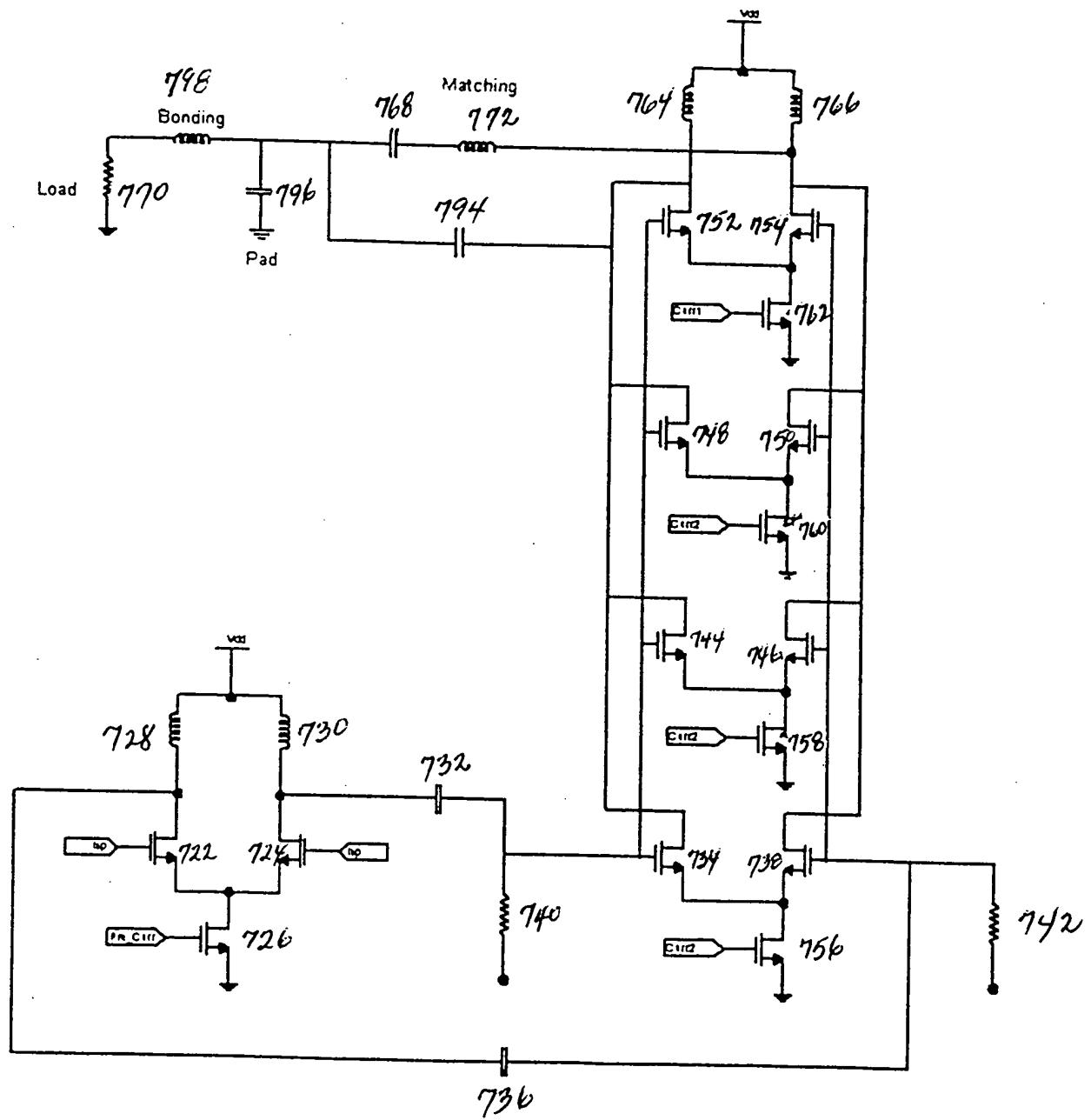


FIG. 30

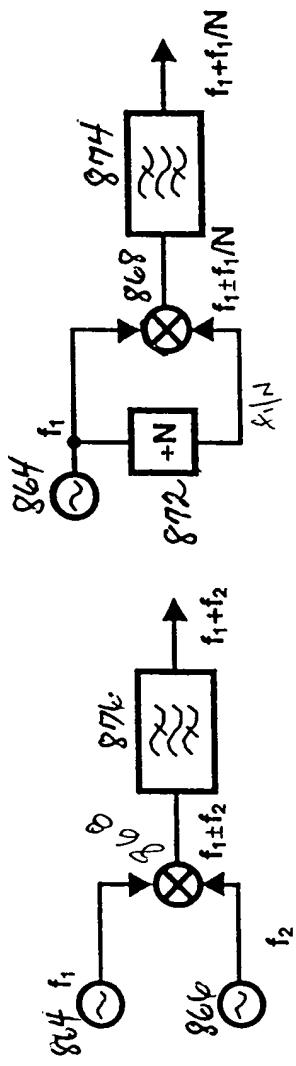


FIG. 31 (a)

FIG. 31 (b)

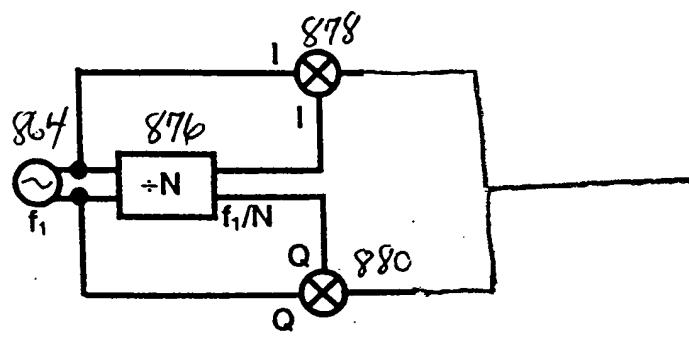


FIG. 32

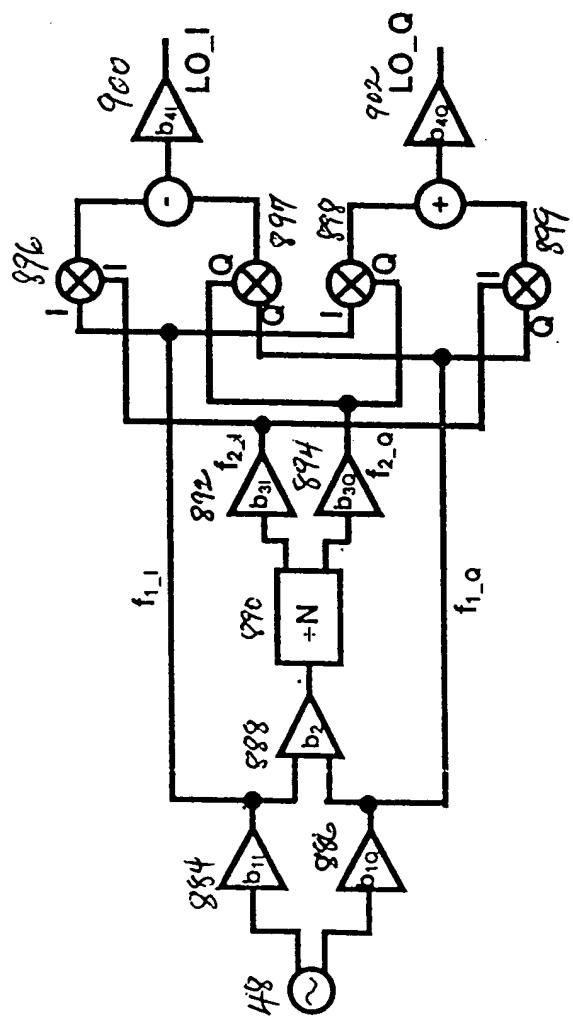


FIG. 33

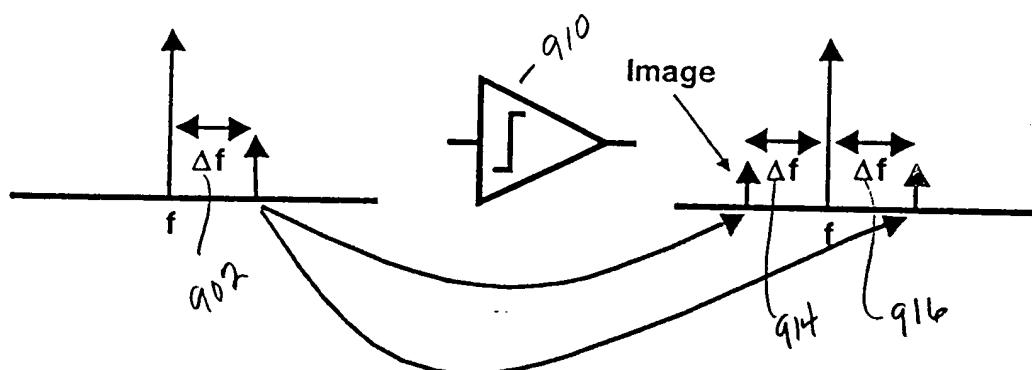


FIG. 33(a)

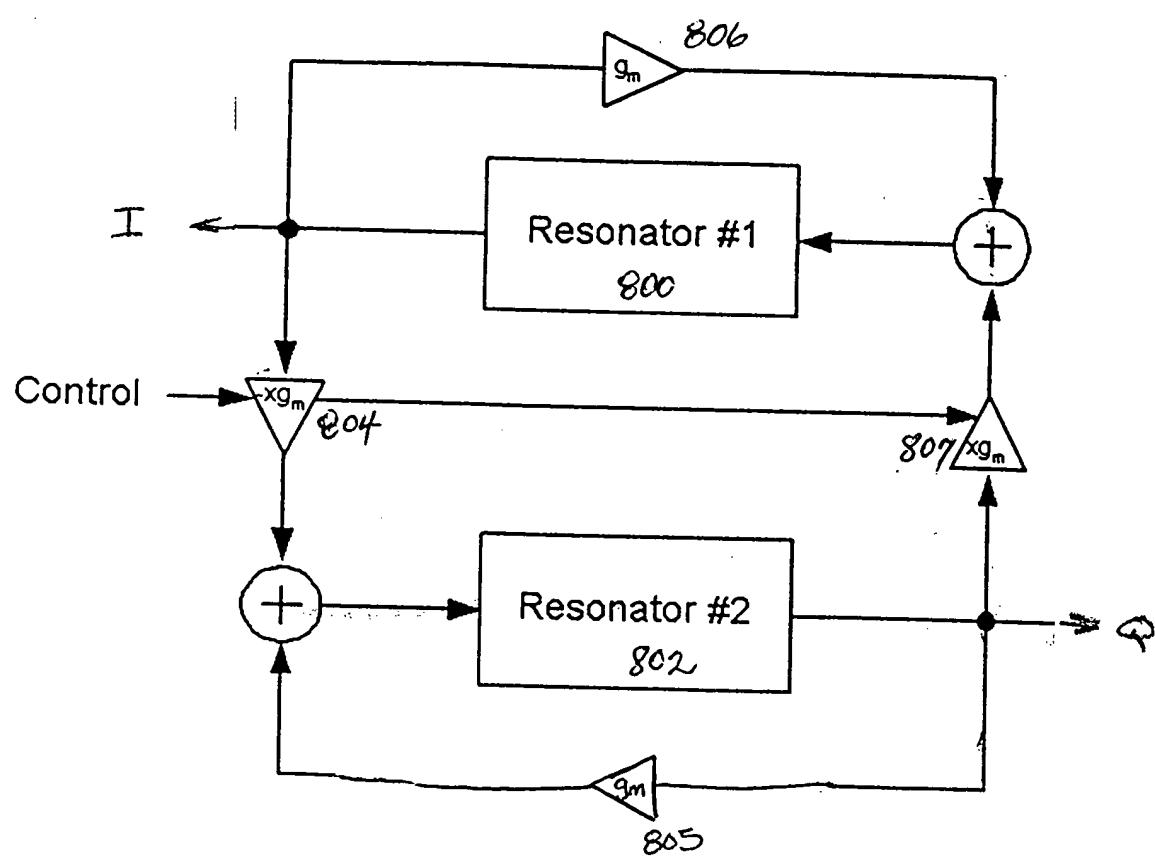


FIG. 34

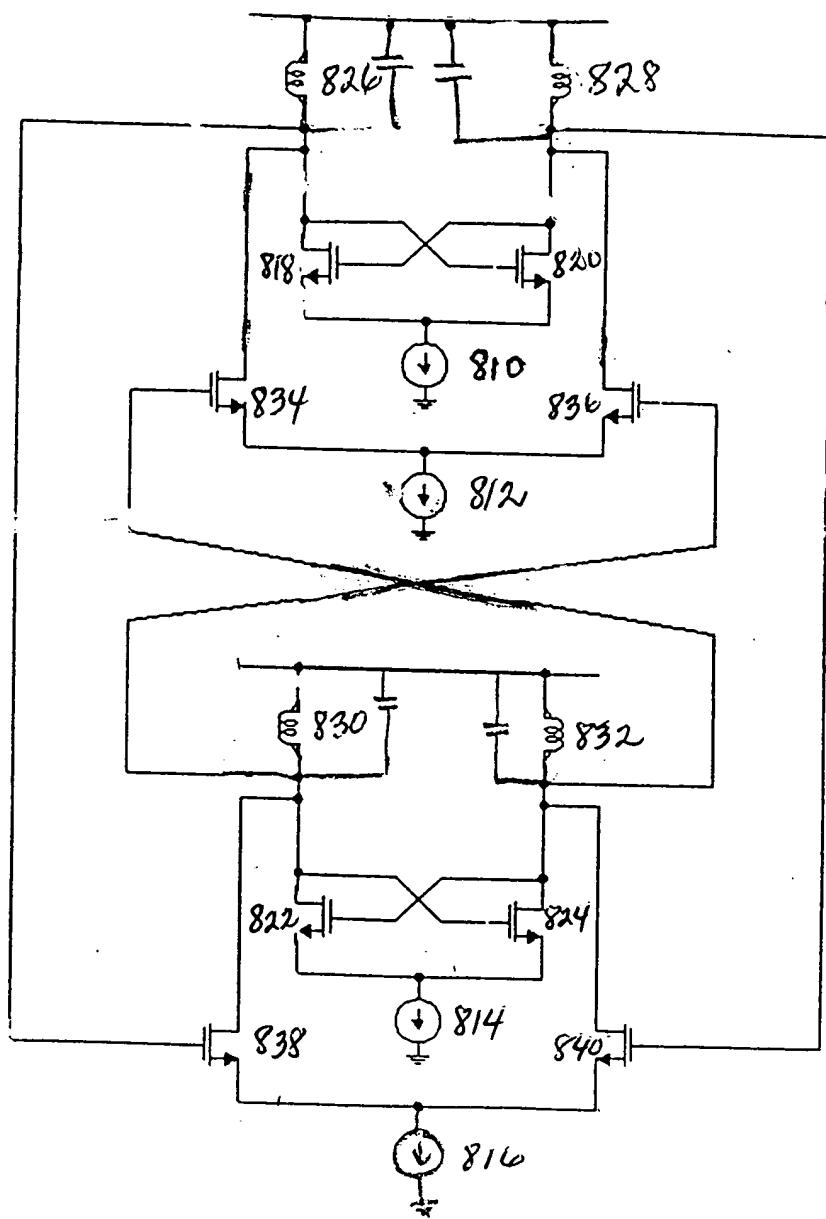


FIG. 35

FIG. 36(b)

Segmented VCO Tuning Curve

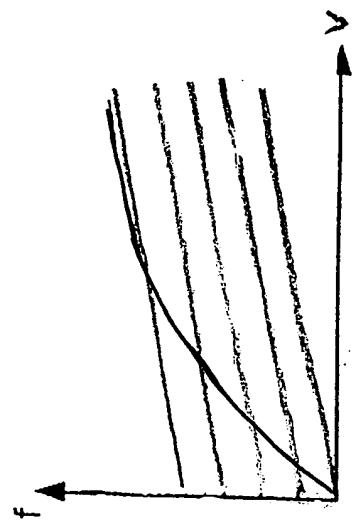


FIG. 36(a)

Typical VCO Tuning Curve

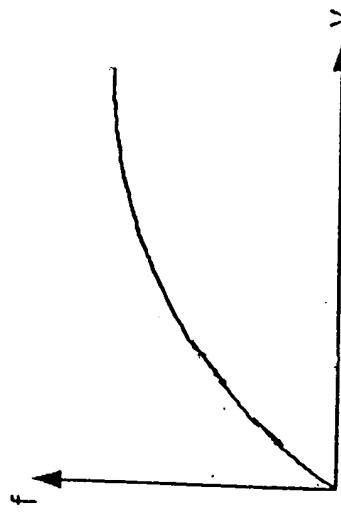
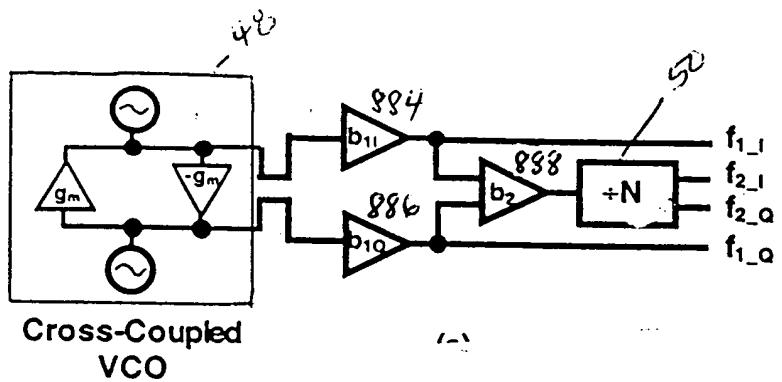
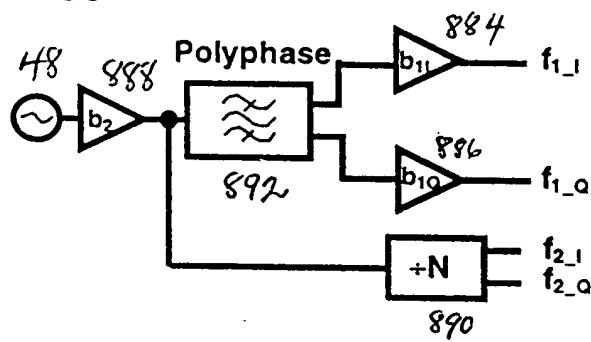


FIG. 37(a)



Cross-Coupled
VCO

FIG. 37(b)



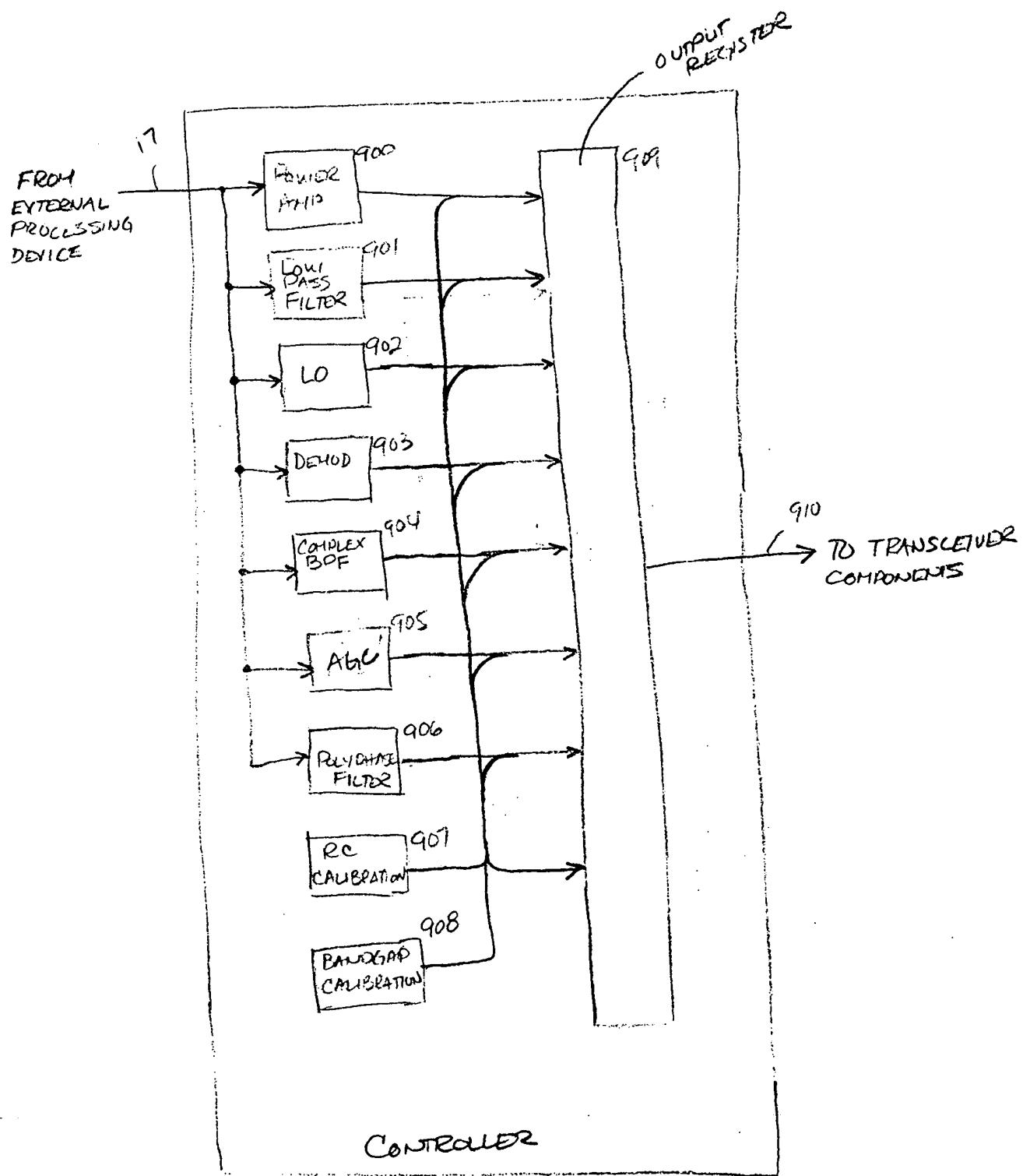


FIGURE 38

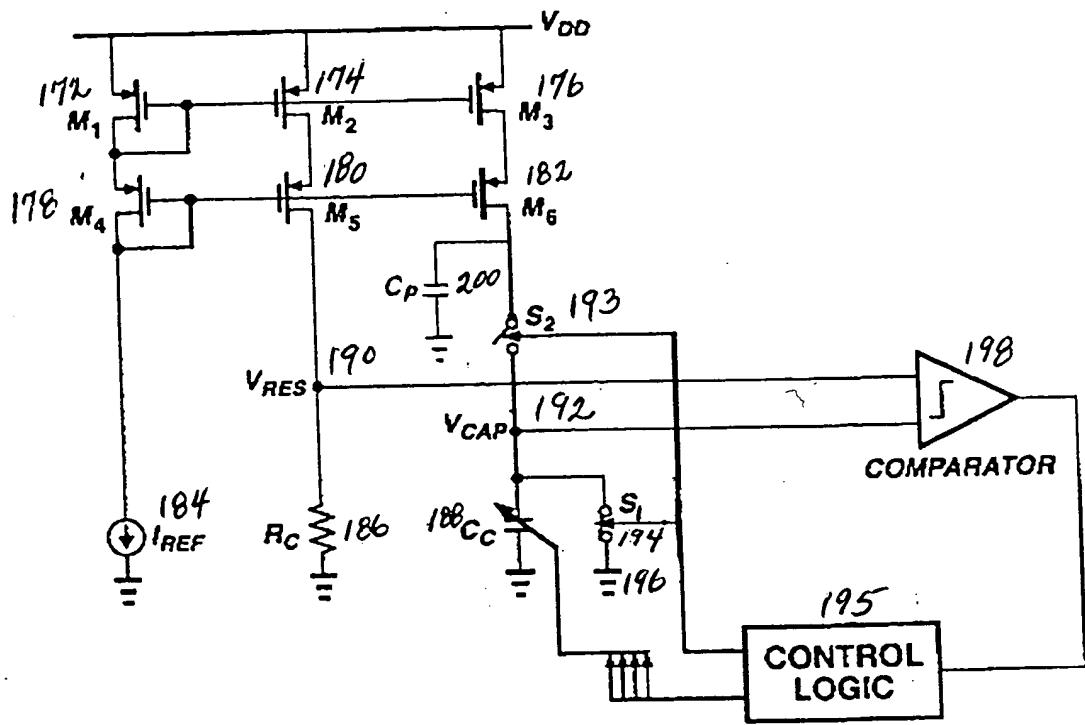


FIG. 39

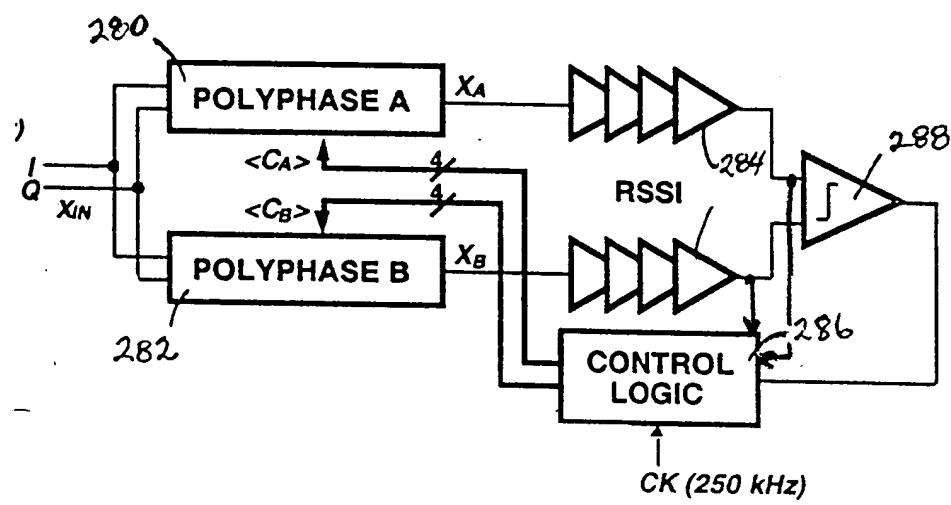


FIG. 40

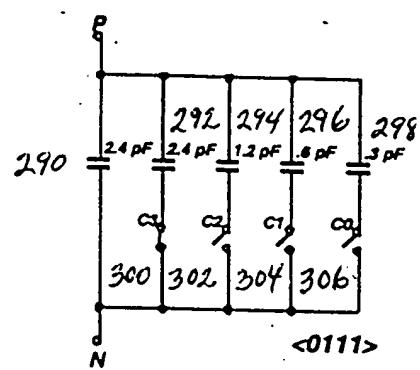


FIG. 41

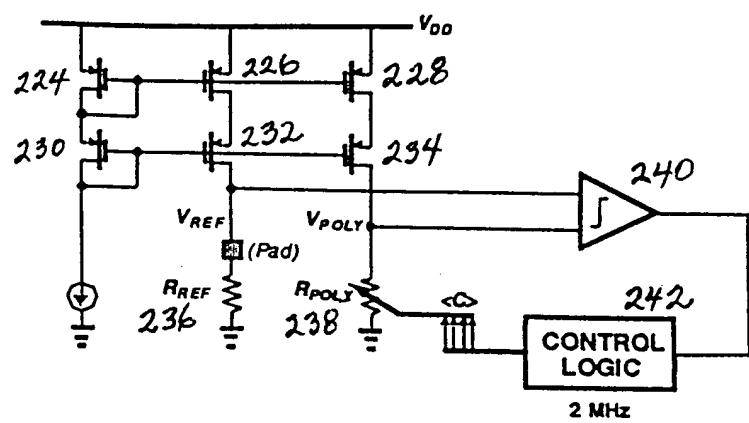


FIG. 42

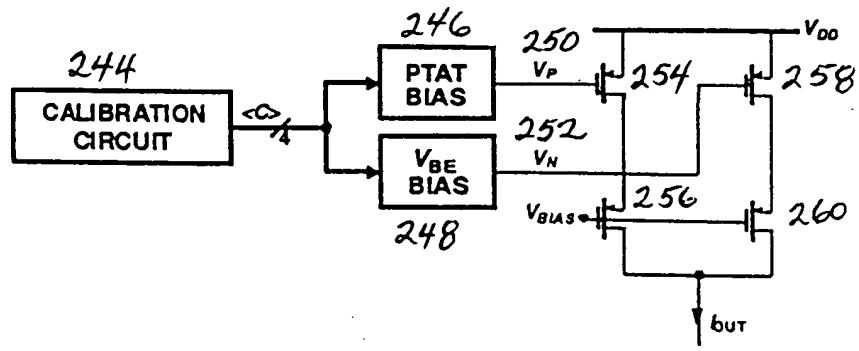


FIG. 43

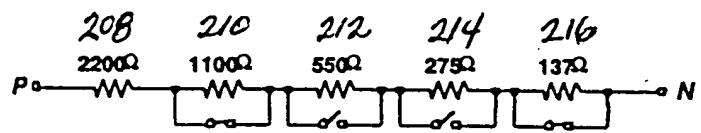


FIG. 44

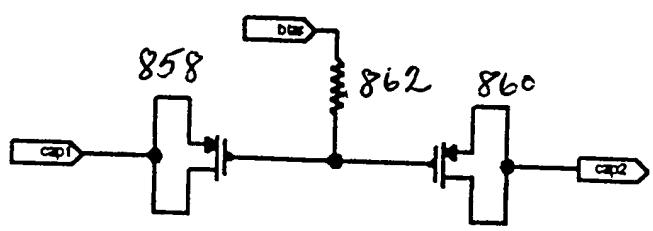


FIG. 45

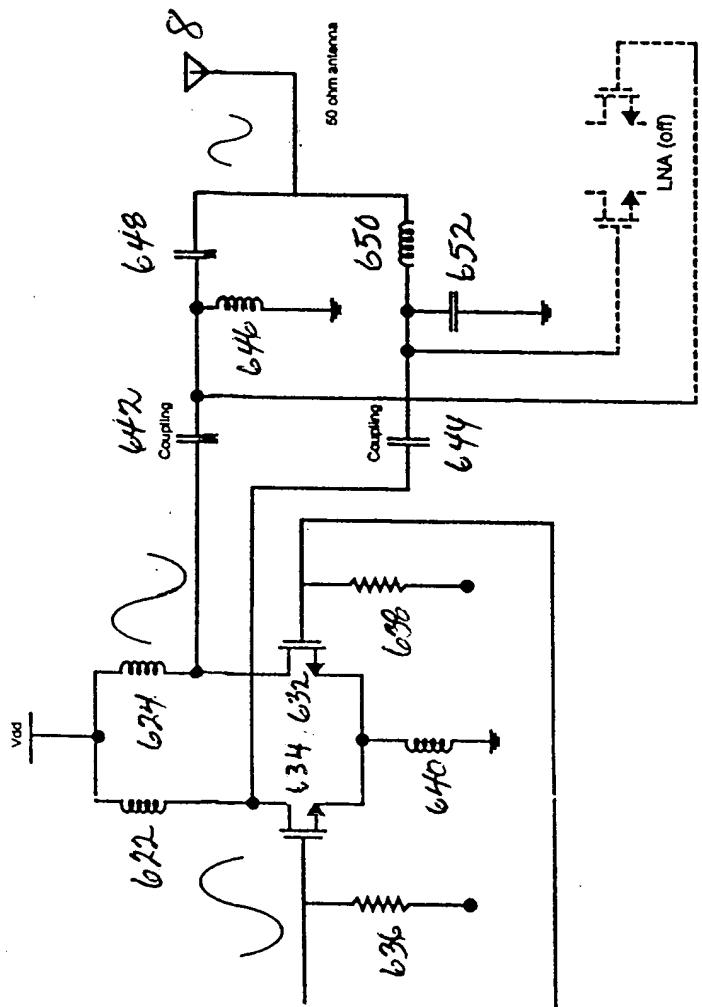


FIG. 46

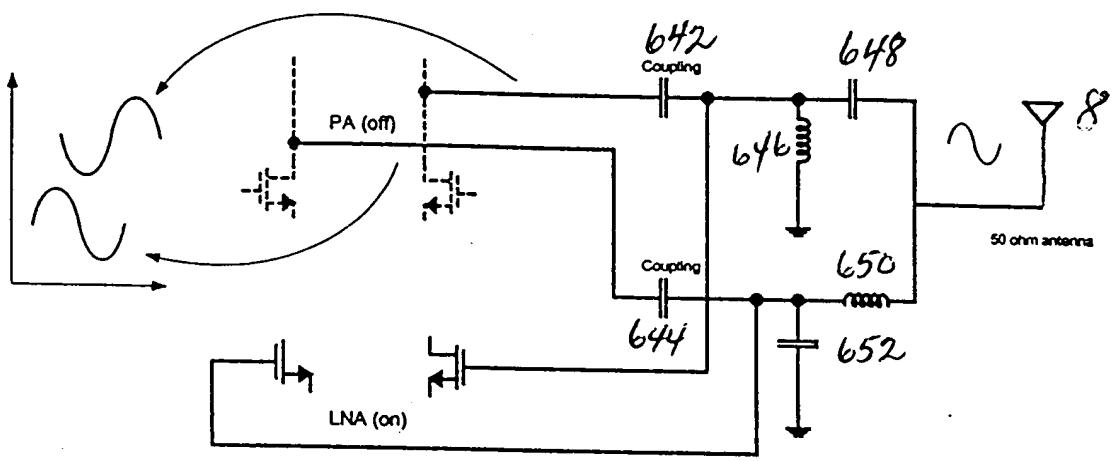


FIG. 47